REMARKS

Claims 8-20, and 29-35 are currently pending in the subject application and are presently under consideration. Claims 1-7 have been cancelled herein, and claims 8 and 14 have been amended. Claims 29-35 have been newly added to emphasize various novel features of applicants' invention. In particular, base claim 29 recites inferring or determining cognitive load of a user based on received sensor information, and dependent claims 30-35 recite further novel features neither taught nor suggested by the cited art, alone or in combination.

Applicants' representative acknowledges with appreciation the Examiner's indication that claims 18-20 would be allowable if recast in independent form. However, it is believed that amending such claims is not necessary in light of the herein noted deficiencies of the cited art.

Moreover, applicants' representative thanks the Examiner for the courtesies extended during the teleconference where distinguishing features of the claimed invention were discussed that traverse the cited art of record.

Favorable reconsideration of the subject patent application is respectfully requested in view of the comments and amendments herein.

I.   **Rejection of Claims 1-7 Under Statutory Type Double Patenting**

Claims 1-7 stand rejected pursuant to statutory double patenting. These claims have been cancelled herein rendering this rejection moot; and withdrawal of this rejection is requested.

II.   **Rejection of Claims 8 and 14-17 Under 35 U.S.C. §102(a)**

Claims 8 and 14-17 stand rejected under 35 U.S.C. §102(a) as being anticipated by Goh, *et al*. "Context Interchange: New Features and Formalisms for the Intelligent Integration of Information," ACM Transactions on Information Systems, 1997 (*see* the IDS submitted, page 5 of 8 references by EL). Withdrawal of this rejection is respectfully requested for at least the following reason. Goh, *et al*. does not disclose or suggest each and every feature recited in the subject claims. In particular, independent claim ***recites mediating state attribute values, from different sources, relating to modeled current user state***. The cited reference does not teach or suggest this claimed aspect of applicants' invention.

Goh, *et al*. teaches a context interchange strategy that facilitates query mediation. More particularly, context theories are employed to allow knowledge of data semantics to be captured

in sources and receivers while allowing a specialized mediator to undertake the role of detecting and reconciling potential conflicts at the time a query is submitted. There is no mention or suggestion of mediating state attribute values in connection with modeled user state. Rather, Goh, *et al.* addresses the issue of data being located across numerous disparate sources, and the complexities associated with executing queries on a most relevant set of disparate sources. The cited reference teaches employing mediated queries to mitigate impact of conflicts associated with semantic heterogeneity. There is no mention or suggestion anywhere in the reference of ***mediating amongst state attribute values in connection with modeled user state*** as in applicants' claimed invention.

In view of at least the foregoing comments, it is readily apparent that Goh, *et al.* does not anticipate or make obvious applicants' invention as recited in independent claim 8, and the claims that depend therefrom - this rejection should be withdrawn.

III.   Rejection of Claims 9-13 Under 35 U.S.C. §103(a)

Claims 9-13 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Goh, *et al.* in view of Schmidt, *et al.*, (There is more to Context than Location: Environment Sensing Technologies for Adaptive Mobile User Interfaces," 11/1998). Withdrawal of this rejection is requested in view of the following comments. The subject claims depend from independent claim 8, and Schmidt, *et al.* does not cure the aforementioned deficiencies of Goh, *et al.* with respect to this claim.

In particular, Schmidt, *et al.* teaches employment of sensor fusion in connection with deriving additional context information regarding a user. There is no teaching or suggestion of modeling user state let alone mediating state attribute values in connection with the modeled user state. Rather, this reference merely employs cues associated with respective sensors in connection with deriving or inferring user state.

Accordingly, the combination of Goh, *et al.* and Schmidt, *et al.* does not make obvious applicants' invention as recited in the subject claims.

CONCLUSION

The present application is believed to be in condition for allowance in view of the above comments and amendments. A prompt action to such end is earnestly solicited.

In the event any fees are due in connection with this document, the Commissioner is authorized to charge those fees to Deposit Account No. 50-1063 [MSFTP1898US].

Should the Examiner believe a telephone interview would be helpful to expedite favorable prosecution, the Examiner is invited to contact applicants' undersigned representative at the telephone number below.

Respectfully submitted,

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